Claims:

- 1. A pressure intensifier assembly comprising:-
- (i) a high-pressure barrel assembly;
- 5 (ii) pressurising means;
 - (iii) a first and a second end closure assembly;
 - (iv) a tension frame assembly adapted to resist axial load exerted, in use, along the longitudinal axis of the high-pressure barrel assembly;
- characterised in that the intensifier assembly further comprises at least one clamping piston adapted to preload the end closure(s) and the high-pressure barrel assembly against the tension frame assembly in order to overbalance anticipated internal end loads.
- 2. A pressure intensifier assembly as claimed in any preceding claim wherein the tension frame assembly takes the form of a yoke.
 - 3. A pressure intensifier assembly as claimed in any preceding claim wherein the assembly further comprises a first and a second high pressure seal assembly, said seal assemblies being located at either end of the high-pressure barrel assembly.
 - 4. A pressure intensifier assembly as claimed in any preceding claim wherein said pressurising means comprises a hydraulic ram assembly.
- 5. A pressure intensifier assembly as claimed in any preceding claim wherein the assembly further comprises a stand.
- 6. A pressure intensifier assembly as claimed in any preceding claim wherein the high-pressure barrel assembly is detachably mountable from the intensifier assembly.
 - 7. A pressure intensifier assembly as claimed in Claim 7 wherein the highpressure barrel assembly is detachable from the intensifier assembly without the need to undo a screw thread.

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8. A pressure intensifier assembly as claimed in any one of Claim 7 or Claim 8 wherein at least one end closure is retractable and, once retracted, the assembly is adapted such that the pressure barrel assembly becomes detachable from the intensifier assembly.

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- 9. A pressure intensifier assembly as claimed in any of Claims 7 to 9 inclusive wherein said assembly further comprises a high-pressure barrel assembly lifting means.
- 10 10. A pressure intensifier assembly as claimed in any one of Claims 7 to 10 inclusive when dependent on Claim 6 wherein the high-pressure barrel assembly is pivotally mounted with respect to the stand.